83859

S/114/60/000/009/001/007
E191/E481

Turbine Stages Which Develop a Large Starting Torque

blade cascades at very large incidences. Tests of a plane cascade of rotor blades were carried out at a Reynolds number of 250000 and a Mach number of 0.2. The main object was the evaluation of very large positive incidences on the profile losses in the cascade and on the outlet angle. With a rising incidence, starting from 20°, the velocity coefficient drops sharply. In the beginning of this region, the kinetic energy of the impinging flow is still large and the cascade losses are increased. When the inlet angle approaches 90°, the relative magnitude of the inlet kinetic energy falls to a minimum because the free cross-section becomes a maximum. The rate of decrease of the velocity coefficient becomes smaller. The outlet angle on the other hand remains almost constant between zero incidence and an incidence of about 80°. The outlet angle slightly diminishes with a further increase of incidence. Tests of two succeeding plane cascades, simulating the stator and rotor blades, have shown that, by increasing the axial clearance between the cascades, the energy losses can be reduced. In annular cascades, the pressure distribution is different and the effect of the axial clearances

Card 2/3

83850

S/114/60/000/009/001/007
E191/E481

Turbine Stages Which Develop a Large Starting Torque

requires further investigation. The preliminary tests so far reported indicate the possibility of designing gas turbines for transport application with a high starting torque. As shown by the tests, the high incidences occurring at standstill are compatible with satisfactory continuous operation of the stage. The large resistance of the cascades at standstill causes an increase in the degree of reaction which determines the mass flow through the turbine. There are 7 figures and 3 Soviet references.

Card 3/3

KIRILLOV, I.I., doktor tekhn. nauk, prof.; KIRILLOV, A.I., inzh.

Characteristics of turbine stages in a wide range of u/c_o numbers. Energomashinostroenie 10 no.4:1-5 Ap '64. (MIRA 17:6)

BRONKOV, Ye.M., inzh.; ALEKSEYEV, O.N., inzh.; [illegible], A.[illegible], inzh.

The BMZ gas turbine with 3,550 h.p. rating. Energomashinostroenie 10 no.7:23-25 Jl '64. (MIRA 17:9)

AUTHORS: Kirillov, I. F., Rybnikov, A. A. SOV/50-58-8-5/18

TITLE: 10 Years Scientific Work of the State Oceanographical Institute on the Whale-Fishing Fleet "Slava" in the Antarctic (Desyat' let nauchnoy raboty Gosudarstvennogo okeanograficheskogo instituta na kitoboynoy flotilii "Slava" v Antarktide)

PERIODICAL: Meteorologiya i gidrologiya, 1958, Nr 8, pp. 28-29 (USSR)

ABSTRACT: The fleet mentioned in the title set sail for the first time in 1946. The complicated weather conditions of the whale-fishery regions of the Antarctic beside a great quantity of icebergs entail dangers. The success of whale-fishery depends on many conditions. Therefore it was necessary to investigate systematically the hydrometeorological conditions of the region. For this purpose a group of scientists began to work on board of the "Slava" already during the second voyage. The Gosudarstvennyy okeanograficheskiy institut (State Oceanographical Institute) took part in it to a considerable extent - it sent its assistants to the group and still takes part in the investigation of the Antarctic Seas. These assistants were the following: the two authors as well as Yu. V. Makerov, V. S.

Card 1/3

10 Years Scientific Work of the State Oceanographical Institute on the Whale-Fishing Fleet "Slava" in the Antarctic

Nazarov, and G. M. Tauber. During the first years the observations were made on the flagship "Slava". Since 1948 the ship "Slava-15" has been commanded to do scientific work and to go whaling. It had, however, to do other work as well, and this rendered the hydrological investigations rather difficult. Inspite of this rich material concerning the hydrology and meteorology of the Atlantic and the whale-fishery regions of the Antarctic was collected. Results were obtained on the distribution of sea-ice and icebergs, on the temperature, transparency, and color of the water. Finally important collections of zoo-plankton were made and whales were marked. The commanders of the fleet were regularly supplied with hydrometeorological characteristics of the whale-fishery regions. Ice maps were designed. The first monograph in two parts (Refs 1, 2), and the material with which the mentioned institute was regularly supplied were printed. New whale-fishery regions are sought by means of modern methods. This implies the distribution of the zoo-plankton in connection with the transparency of the water, content of phosphates, oxygen, and salt. The infrasonic waves which drive away whales are investigated. There are

SOV/50-58-8-5/18

10 Years Scientific Work of the State Oceanographical Institute on the Whale-Fishing Fleet "Slava" in the Antarctic.

2 references, which are Soviet.

Card 3/3

AUTHORS: Rybnikov, A.A. and Kirillov, I.F. SOV-25-58-9-34/62

TITLE: Branding Whales (Metki na kitakh)

PERIODICAL: Nauka i zhizn', 1958, 25 Nr 9, p 66 (USSR)

ABSTRACT: The branding of whales was introduced in 1930. Its aim was to trace the origin of killed animals. Special rifles were used to shoot "marks" made of stainless steel into the backs of the whales. The site where this "branding" was done was marked on the map and the information transmitted to the Vsesoyuznyy nauchno-issledovatel'skiy institut rybnogo khozyaystva i okeanografii (The All-Union Scientific Research Institute of the Fishing Industry and Oceanography) which transmitted this information to the international organization which regulates the whaling industry.

ASSOCIATION: Nauchnaya gruppa kitoboynoy flotilii "Slava" (The Scientific Group of the Whale Flotilla "Slava")

1. Whales--Migration

Card 1/1

PHASE I BOOK EXPLOITATION SOV/4737

Ivanov, A.P., I.F. Kirillov, A.A. Rybnikov, and K.M. Sirotov

Gidrometeorologicheskiye nablyudeniya na kitoboynom sudne "Slava-15" Antarkticheskoy kitoboynoy flotilii v 1955-58 gg. i glubokovodnyye gidrologicheskiye nablyudeniya v 1950-51 i 1953-58 gg. (Hydrometeorological Observations Made on Board the Whaler "Slava-15" of the Antarctic Whaling Fleet, 1955-58, and Deep-Sea Hydrological Observations, 1950-51 and 1953-58) Moscow, Gidrometeoizdat (Otd-niye), 1960. 319 p. (Series: Moscow. Gosudarstvennyy okeanograficheskiy institut. Trudy, vyp. 58) 650 copies printed.

Sponsoring Agencies: Glavnoye upravleniye gidrometeorologicheskoy sluzhby pri Sovete Ministrov SSSR; Gosudarstvennyy okeanograficheskiy institut.

Ed. (Title page): V.S. Nazarov; Ed. (Inside book): N.I. Sorokina; Tech. Ed.: I.M. Zarkh.

PURPOSE: The book is intended for members of the whaling industry and for navigators. It will also be useful to meteorologists and hydrologists.

COVERAGE: This issue of the Transactions of the Moscow State Oceanographic Institute presents the results of hydrometeorological and glaciological observations

Card 1/5

Hydrometeorological Observations (Cont.) 30V/4737

conducted in Antarctic waters by the scientific exploration vessel "Slava-15" in 1955-58. During the first two seasons observations were conducted in the Atlantic section of the Antarctic waters. Observations made during the last voyage were extended over Antarctic waters from long. 42° W. to long. 162° E., i.e., over the southern part of the Atlantic and Indian oceans. This issue of the Transactions contains some general conclusions of value in the field of hydrology, meteorology and wind-generated sea-swell stuiies. Tables presenting the results of deep-sea observations made by the "Slava-15" from 1950 through 1958 are included. The scientific hydrometeorological group on the vessel consisted of the following: A.P. Ivanov, I.P. Kirillov, V.L. Lebedev, and A.A. Rybnikov. Meteorological and hydrological observational data from the expedition were processed at the State Oceanographic Institute by the same scientists. Chapter IV was written by K.M. Sirotov. There are 13 references: 11 Soviet, 1 German, and 1 English.

TABLE OF CONTENTS:

Card 2/5

KIRILLOV, I. F., nauchnyy sotrudnik; RYBNIKOV, A.A., nauchnyy sotrudnik; NAZAROV, V.S., red.; TARKHUNOVA, V.I., red.; ZEMTSOVA, T.Ye., tekhn.red.

[Hydrometeorological observations on research and scouting ships of the "Slava" Antartic Whaling Fleet in 1958-1959] Gidrometeorologicheskie nabliudeniia na nauchno-poiskovykh sudakh AKF "Slava" v 1958-1959 g. Moskva, Gidrometeor. izd-vo (otdelenie), 1961. 77 p. (Moscow. Gosudarstvennyi okeanograficheskii institut. Trudy, no.60) (MIRA 14:7)

1. Gosudarstvennyy okeanograficheskiy institut.
(Antarctic regions--Meteorology--Observations)
(Antarctic regions--Oceanographic research)

S/079/63/033/001/009/023
D205/D307

AUTHORS: Razuvayev, G. A., Kirillov, A. I. and Etlis, V. S.

TITLE: Thermal decomposition of bis(1-methylpercabonatocyclohexyl) peroxide (I)

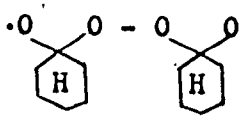
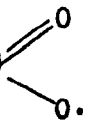
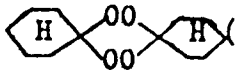
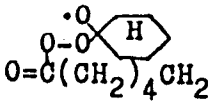
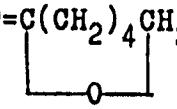
PERIODICAL: Zhurnal obshchey khimii, v. 33, no. 1, 1963, 131-138

TEXT: The kinetics of the thermal decomposition of I were studied in the range 50 - 85°C, in iso-propanol, cyclohexane, benzene and CCl_4, finding that the reactions were of 1st order; the rate was fastest in the propanol and was approximately equal in the other solvents tested. The overall activation energies were 30.2 (iso-PrOH), 24.5 (cyclo-$C_6H_{12}\cdot C_6H_6$) and 23.4 kcal/mole (CCl_4). The decomposition products were CO_2, CH_3OH, 6-caprolactone, n-caproic acid, 6-hydroxycaproic acid, and a cyclic cyclohexyl diperoxide. Some interaction with the solvent was observed, obtaining acetone in iso-PrOH, cyclohexene in C_6H_{12}, and hexachloroethane in CCl_4 and $CHCl_3$.

Card 1/2

S/019/63/033/001/009/023
D205/D307

Thermal decomposition of ...

In the mechanism proposed, I forms  (II), by loss of $2CH_3OO$  radicals(which decompose to $CH_3O\cdot$ and CO_2), which then (a) recombines to give  (V) and (b) gives rise to a new radical  (III). The radical III decomposes in turn to  (IV) and a lactone  (VI), and IV dimerizes to V or goes over to VI. The effects of solvents are discussed. There are 5 figures and 4 tables.

SUBMITTED: February 20, 1962

Card 2/2

RAZUVAYEV, G. A.; KIRILLOV, A. I.; ETLIS, V. S.

Thermal decomposition of bis(1-methylpercarbonate cyclohexyl) peroxide. Zhur. ob. khim. 33 no.1:131-138 '63. (MIRA 16:1)

(Peroxides)

RAZUVAYEV, G.A.; KIRILLOV, A.I.; ETLIS, V.S.

Thermal decomposition of bis[1-alkyl(aryl)-percarbonatocycloalkyl] peroxides in benzene. Zhur.ob.khim. 33 no.12:3989-3993 D '63.

Thermal decomposition of bis[alkyl(aryl)percarbonatocycloalkyl] peroxides in isopropyl alcohol. Ibid.:3993-3998 (MIRA 17:3)

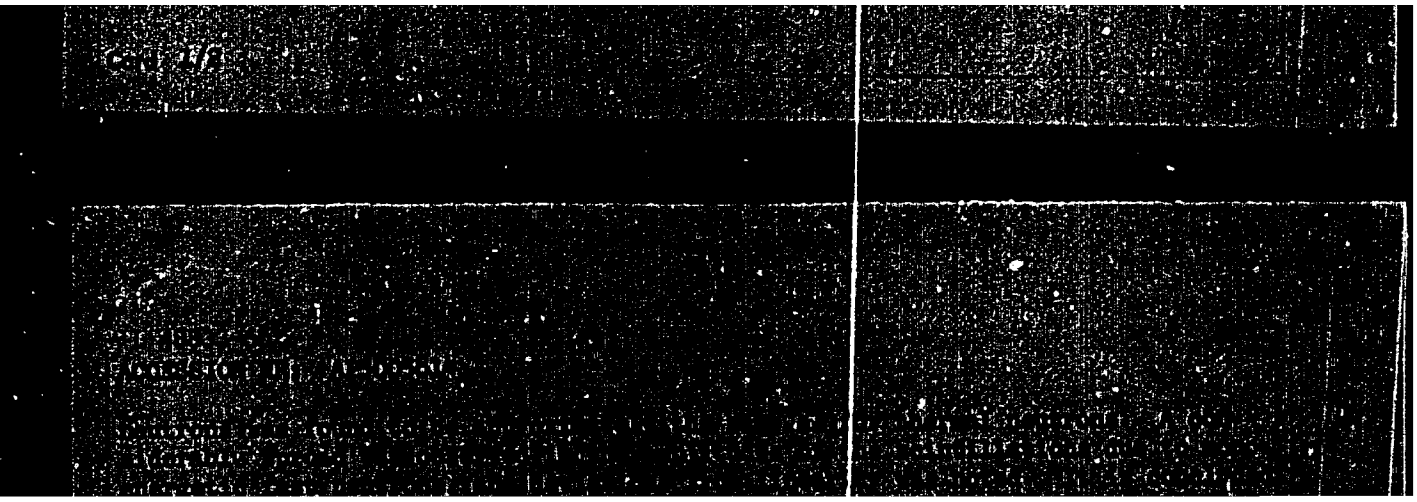
KIRILLOV, A.I.

Reactions of free peroxide alkyloxy radicals obtained by the decomposition of acylated bis(2-hydroperoxybutyl) peroxides. Zhur. org. khim. 1 no.7:1230-1234 Jl '65.

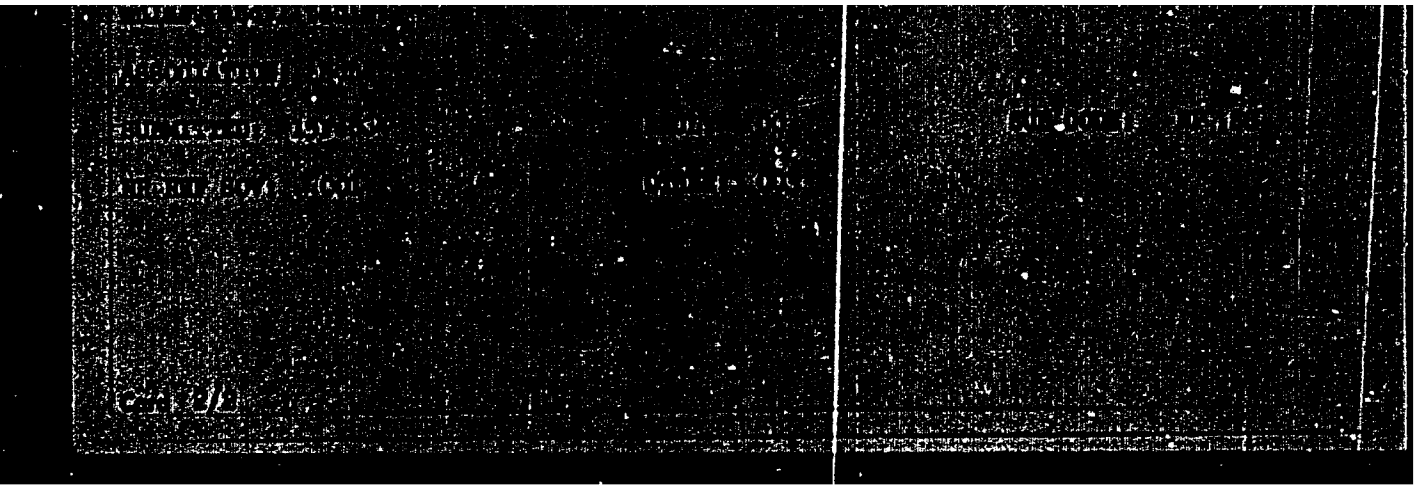
Thermal decomposition of hydroperoxides based on methyl ethyl ketone. Ibid.:1226-1230 (MIRA 18:11)

KIRILLOV, A.I.

Thermal decomposition of alkylidenedihydroperoxides obtained on the basis of keto acid esters. Zhur. org. khim. 1 no.8: 1411-1415 Ag '65. (MIRA 18:11)



APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722620016-5"



KIRILLOV, A.I.; ALKHIMENKOVA, G.I.

Elimination of the effect of iron and aluminum by adding calcium in the determination of strontium by flame photometry. Zav. lab. 31 no.1:57-58 '65. (MIRA 18:3)

1. Institut geokhimii Sibirskogo otdeleniya AN SSSR.

L 36413-66 EWT(m)/T

ACC NR: AP6021993 SOURCE CODE: UR/0120/66/000/003/0027/0030

AUTHOR: Gorlov, O. V.; Kirillov, A. I.; Lobodova, N. S.

ORG: Institute of Atomic Energy, GKAE, Moscow (Institut atomnoy energii GKAE)

TITLE: Generation of a neutron beam for measuring small-angle-scattering cross-section

SOURCE: Pribory i tekhnika eksperimenta, no. 3, 1966, 27-30

TOPIC TAGS: neutron beam, neutron scattering, scattering cross section

ABSTRACT: A diagram is shown of a liquid-nitrogen-cooled rotary target and a variable-aperture wedge-shaped-canal collimator, which are intended for generating small-angle medium-energy neutron beams. The beams are used for measuring differential small-angle-scattering (up to 0.5°) cross section. Results are reported of measuring the shape of collimated neutron beam, from a D-D reaction: E_n = 4 Mev; aperture, 1° (solid angle, 0.0003 ster). The neutron-density distribution in the beam is practically rectangular. Total collimator flux, 4 x 10^5 neutrons/sec; E_d = 1400 kev; energy loss in the heavy-ice layer, ΔE = 400 kev; deutron current, 40 μa; total target yield, 1.7 x 10^9 neutrons/sec. Orig. art. has: 2 figures. [03]

SUB CODE: 18 / SUBM DATE: 11May65/ ATD PRESS: 5038

Card 1/1 UDC: 621.039.556

L 07924-67 EWT(m)/EWP(t)/ETI IJP(c) JD/JC
ACC NR: AP6033386 SOURCE CODE: UR/0075/66/021/008/1018/1020

35
B

AUTHOR: Kirillov, A. I.; Lauer, R. S.; Polucktov, N. S.

ORG: Odessa Laboratories, Institute of General and Inorganic Chemistry, AN UkrSSR (Laboratorii v Odesse, Instituta obshchey i neorganicheskoy khimii AN UkrSSR)

17

TITLE: Fluorimetric determination of yttrium in a mixture of rare earths after their separation by paper chromatography

SOURCE: Zhurnal analiticheskoy khimii, v. 21, no. 8, 1966, 1018-1020

TOPIC TAGS: rare earth, chromatography, paper chromatography, yttrium, yttrium determination, yttrium nitrate, fluorimetric method, fluorimetry

ABSTRACT: A rapid fluorimetric method has been developed for the semiquantitative determination of yttrium in chromatographic zones after separation of rare earths by means of partition paper chromatography. The yttrium content is evaluated by the direct fluorimetry of the part of the chromatogram where the yttrium zone is located after the chromatogram has been treated by a phenyl salicylate solution. The method has been checked on neodymium nitrate solutions (25 mg/ml) containing

UDC: 543.544

Card 1/2

L 07924-67
ACC NR: AP6033386

various amounts of yttrium nitrate. The fluorescence intensity is directly proportional to the yttrium content in the zone if the total amount is not more than 4—4.5 μg. The least determinable amount is 0.5 μg of yttrium. Orig. art. has: 1 figure and 1 table. [Authors' abstract]

SUB CODE: 07/ SUBM DATE: 16Jul65/ ORIG REF: 005/ OTH REF: 003/

Card 2/2 ymb

L 1849-66 EWT(m)/EPF(n)-2/EWA(h)

ACCESSION NR: AT5022311 UR/3136/65/000/867/0001/0008 34 B+1

AUTHOR: Gorlov, G.V.; Kirillov, A.I.; Lebedeva, N.S.

TITLE: Neutron beam for measuring small-angle scattering cross sections

SOURCE: Moscow. Institut atomnoy energii. Doklady, IAE-867, 1965. Puchok neytronov dlya izmereniya sechenly rasseyaniya na malyye ugly, 1-8

TOPIC TAGS: neutron beam, neutron scattering, scattering cross section, differential cross section, collimator

ABSTRACT: Measurements of small-angle (1 — 5°) neutron scattering require that the detector of scattered neutrons be placed at a short distance from the main neutron beam, and for this reason it is desirable to have a well-defined neutron beam with a minimum halo. The article describes a device consisting of a rotating target cooled with liquid nitrogen and a collimator with a variable aperture for producing a narrow beam of medium-energy electrons suitable for measuring differential cross sections of small-angle neutron scattering (at angles as low as 0.5°). Measurements of the distribution of neutrons in the beam and its immediate vicinity were made with a beam of E_n = 4 MEV for a total vertical and horizontal opening of the beam of 1°

Card 1/2

L 1849-66
ACCESSION NR: AT5022311

(aperture of about 4×10^{-4} sterad; total neutron flux, ~4×10^{4} n/sec). Values of other parameters of the system are given. Orig. art. has: 2 figures.

ASSOCIATION: none

SUBMITTED: 00 ENCL: 00 SUB CODE: NP

NO REF SOV: 000 OTHER: 000

Card 2/2

L 00019-66 EWT(m)/EPA(w)-2/EWA(m)-2 IJP(c)

ACCESSION NR: AP5021369 UR/0120/65/000/004/0221/0222
621.384.664

AUTHOR: Gorlov, G. V.; Kirillov, A. I.; Lebedeva, N. S.

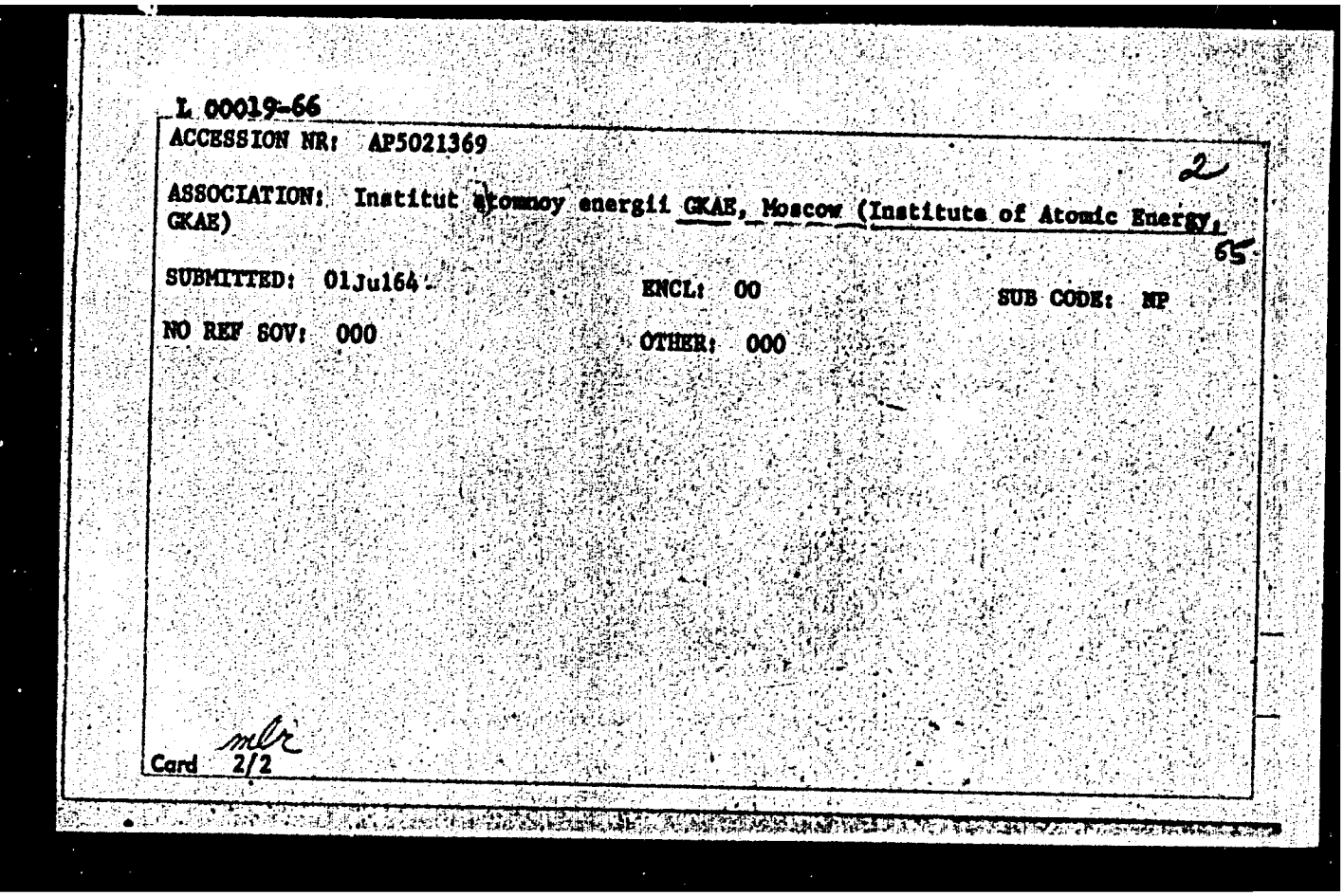
TITLE: The design of a gas target for electrostatic accelerators

SOURCE: Pribory i tekhnika eksperimenta, no. 4, 1965, 221-222

TOPIC TAGS: electron, particle accelerator target

ABSTRACT: In numerous physical experiments with monoenergetic electrons it is advantageous to utilize gas targets. This paper describes the design of such a gas target intended for electrostatic generators. The use of a diaphragm pump allows an efficient cooling of the foil at the input window of the target and this significantly increases the maximum current incident on the target. With the nickel foil being 1.35 mg/cm^2 thick and deuterium pressure within the target being 700 Torr, the deuteron current reached 10 μA with an energy of 1.4 MEV. The target is relatively simple to make and reliable in operation. Orig. art. has: 2 figures.

Card 1/2



L 00019-66
ACCESSION NR: AP5021369

2

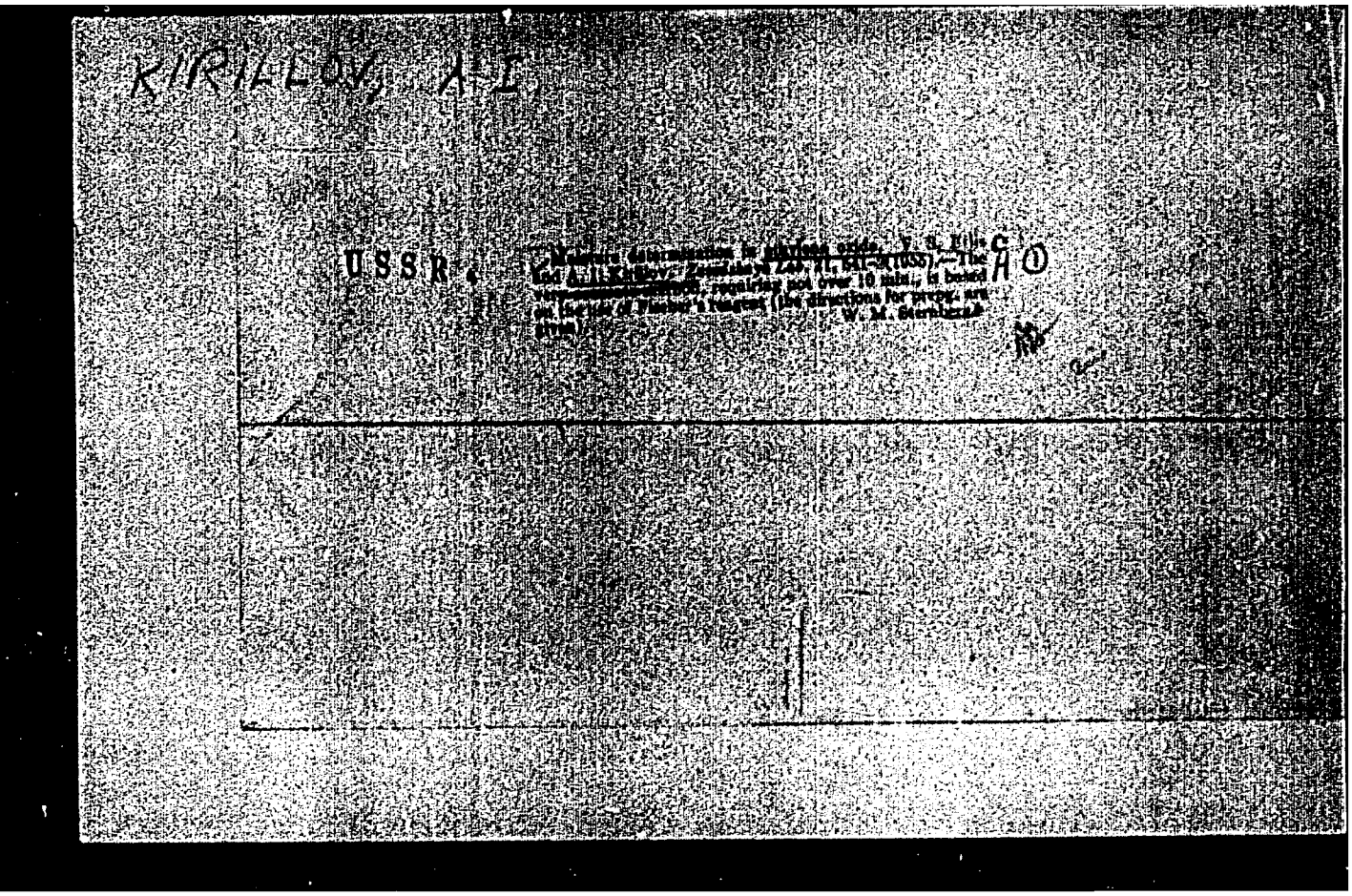
ASSOCIATION: Institut atomnoy energii GKAE, Moscow (Institute of Atomic Energy, GKAE)

65

SUBMITTED: 01Jul64 ENCL: 00 SUB CODE: NP

NO REF SOV: 000 OTHER: 000

Card 2/2 mlr



SOV/80-32-2-33/56

AUTHORS: Etlis, V.S., Minsker, K.S., Kirillov, A.I., Kucherenko, M.M.

TITLE: On the Production and the Properties of Polypropylene (O poluchenii i svoystvakh polipropilena)

PERIODICAL: Zhurnal prikladnoy khimii, 1959, Vol XXXII, Nr 2, pp 418-423 (USSR)

ABSTRACT: Polypropylene was prepared on catalysts containing a mixture of triethylaluminum ($AlEt_3$) and the chlorides of titanium ($TiCl_4$ and $TiCl_3$). The polymer was obtained in the quantity of 0.5 - 1.0 kg from 1 liter of the reaction mass in the presence of $TiCl_4$ as a catalyst. The average molecular weight was 23,000 - 24,000. The content of the amorphous polymer in the final product was 25 - 35%. If $AlEt_3$ with $TiCl_3$ was used as catalyst the polymer was in crystalline form. The Staudinger equation [Ref 7] is valid for all propylene solutions.

Card 1/2

On the Production and the Properties of Polypropylene SOV/80-32-2-33/56

There are 3 tables, 2 graphs, 1 diagram, and 8 references, 4 of which are Soviet, 3 English, and 1 German.

SUBMITTED: June 17, 1957

Card 2/2

KIRILLOV, A.I. (Belozersk, Vologodskoy oblasti)

If you love your native village. Zdorov'e 7 no.3:11 Mr '61. (MIRA 14:3)

(BICHEVINKA--PUBLIC HEALTH)

KIRILLOV, A.M.

Concerning the school atlas. Geog.v shkole 19 no.2:73-75 Mr-Ap '56. (Geography--Study and teaching) (MLRA 9:7)

KIRILLOV, A. M.

3(1) PHASE I BOOK EXPLOITATION SOV/2367

Moscow. Institut inzhenerov geodezii, aerofotos"yemki i kartografii

Trudy, vyp. 28 (Transactions of the Moscow Institute of Geodetic, Aerial Survey and Cartographic Engineers, Nr 28) Moscow, Geodezizdat, 1957. 110 p. 1,400 copies printed.

Ed.: A. I. Mamiashvili; Ed. of Publishing House: T. A. Shamarova; Tech. Ed.: V. V. Ramanova.

PURPOSE: This collection of articles is intended for geodesists, photogrammetrists, and cartographers.

COVERAGE: This issue contains articles on geodetic surveying, photogrammetry, and cartography. The articles devoted to geodetic surveying discuss errors in precise leveling, an engineer level, and the speed of light in a vacuum. In the field of photogrammetry there are articles on camera tilt, the use of photos of two scales in densifying control, and the differential method of aerial triangulation. Two articles in cartography discuss Polish school atlases and the history of political administrative maps of the USSR. References accompany individual articles.

TABLE OF CONTENTS:

Tsvetkov, V. Ya. The Problem of Determining the Tilt Angle of the Optical Axis of an Aerial Camera During Flight 3

Dunayev, G. V. Engineer's Level of the Docent V.A. Bolitsyn Design 27

Piskunov, M. Ya. Errors in Precise Leveling Caused by Incorrect Placement (Holding) of Invar Rods 41

Prilepin, M. T. The Most Probable Value of the Speed of Light in Vacuum 53

Petrov, A. P. The Use of Aerial Photos of Two Scales for Densifying Horizontal and Vertical Control in Large Scale Surveys 61

Kirillov, A. M. Polish School Atlases in Geography

Fedchuk, G. D. The Differential Method of Aerial Triangulation Considering Side, Base and Azimuth Conditions 77

Bilich, Th. S. Notes From the History of the Development of Political Administrative Maps of the USSR 105

AVAILABLE: Library of Congress

RV/dfk
7-16-59

Card 1/3

AUTHOR: Kirillov, A. M., Head Teacher SOV/154-58-3-15/24

TITLE: German Geographical School Atlases (Nemetskiye shkol'nyye geograficheskiye atlasy) German Democratic Republic (Germanskaya Demokraticheskaya Respublika)

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy . Geodeziya i aerofotos"-yemka, 1958, Nr 3, pp 123-130 (USSR)

ABSTRACT: This paper gives a survey on the school atlases published in the German Democratic Republic up to 1958. Especially the first period (1946-50) is discussed, in which so-called temporary editions prevailed: The small school atlas with geographical maps of all continents. Especially elaborated were the territory of the German Democratic Republic and the European countries. The small people's atlas: Its content is similar to that of the small school atlas, its size is, however, larger. The maps of Europe are contained in larger scale. It has 23 pages (11 pages are maps). This atlas is devised for the elementary schools. F. Gefke wrote the text (the illustrations were made by F. Pruss). The atlas "From the Picture to the Map" (for the middle classes of elementary

Card 1/2

German Geographical School Atlases.
German Democratic Republic

SOV/154-58-3-15/24

schools) has a similar composition but is based on strictly methodic principles. There is also the "Leipzig Home Atlas", published in 1949. It differs considerably from those mentioned above: It has social-economical, geological and physical maps, climate charts, and meteorological maps. The improved, so-called "Great Edition" was published in 1950. There is no special atlas on commercial geography. This field has to be covered by the "World Atlas", published in Leipzig in 1952. This atlas proves the progress of cartography in the German Democratic Republic. Its size, and the material worked up, its composition and the numerous special maps distinguish it considerably from earlier published atlases as well as from the Goldmann edition, Munich in 1955. There are 13 references, 13 of which are Soviet.

ASSOCIATION: Tambovskiy pedagogicheskiy institut
(Tambov Pedagogical Institute)

Card 2/2

AUTHOR: Kirillov, A. M. 6-58-6-15/21

TITLE: School-Atlantes in the German Democratic Republic and in Czechoslovakia (Shkol'nyye atlasy GDR i Chekhoslovakii)

PERIODICAL: Geodeziya i kartografiya, 1950, Nr 6, pp. 70 - 73 (USSR)

ABSTRACT: In the German Democratic Republic the atlas "From the Picture to the Map" for the 3rd and 4th grade of secondary school (first edition 1951) and the "Atlas for Geography" (edited since 1951) are printed at present. The "World Atlas" is wide-spread; 1st edition 1952 and 2nd edition 1957. The atlas "From the Picture to the Map" was compiled by the E.Speer Central Pedagogical Institute (Tsentral'nyy pedagogicheskiy institut Ye. Speer) and the Department of Geography of the state-owned enterprise "People and Science". The editor was V.Heidenreuter (?)(V.Khaydenroyter) the draftsman was V. Lenz (?)(Lents). According to its character it is an atlas for the study of home surroundings. Its format is 21 x 30 cm, and it has 48 pages. It consists of 3 parts: 1.-Introduction with pictures and explanatory text. 2.-Study of home surroundings with maps of single or several districts. 3.-Continents, world map and pictures with text.- The "Illustrated

Card 1/2

School-Atlantes in the German Democratic Republic and in Czechoslovakia 6-58-6-15/21

Childrens' Atlas", edition 1948, is of great interest. The text is written by F.Hefke (?)(Khefke), it is illustrated by F.Pruss. The atlas is a kind of geographical lotto.
In Czechoslovakia the "Geographical School Atlas" for the 4th and 5th grade of the School for General Education (Secondary school ?) was edited in 1956. It has 18 pages and is based on the principle "From Special to General Topics". The German and Czechoslovakian atlas have many things in common.

1. Maps--Applications 2. Universities--Equipment

Card 2/2

KIRILLOV, A.M.

Japanese geographical school atlases. Sbor. st. po kart. no. 11:19-24 '60. (MIRA 14:1)

(Atlases, Japanese)

KIRILLOV, A.M.

School atlas of Tambov Province. Geog. v shkole 24 no.2:44-47 Mr-Ap '61. (MIRA 14:3)

(Tambov Province--Maps)

KIRILLOV, A.M.

Contents of a school atlas for the study of local lore. Geod. i kart. no.12:40-44 D '63. (MIRA 17:1)

KIRILLOV, Boris Nikolayevich, polkovnik; POSTNIKOV, Viktor Fedorovich, polkovnik; KONKIN, P.I., red.

[Tank company in battle] Tankovaia rota v boiu. Moskva, Voenizdat, 1965. 159 p. (MIRA 19:1)

KIRILLOV, A.N.

Radial drying of a birch veneer sheet in the process of its artificial drying. Der. prom. 13 no.8:10 Ag '64. (MIRA 17:11)

KIRILLOV, A.N., inshener.

Methods of cutting veneer. Der. prom. 6 no.4:13-14 Ap '57.
(MLRA 10:6)

1. Moskovskiy lesotekhnicheskiy institut.
(Veneers and veneering)

KIRILLOV, A. N. Cand Tech Sci — (diss) "Investigation of the Technological Loss s of Raw Material in the Process of Shelling and Glueing Plywood With Carbamide Glues and Ways for Decreasing the Loss," Moscow, 1960, 16 pp, 170 copies (Moscow Forestry Engineering Institute) (KL, 49/60, 127)

DOLMATOVSKIY, Yuriy Aronovich, kand. tekhn. nauk; GOR, A.I., inzh., retsenzent; KIRILLOV, A.N., red.; VASIL'YEVA, I.A., red. izd-va; MODEL', B.I., tekhn. red.

[Fundamentals of the design of motor-vehicle bodies] Osnovy konstruirovaniia avtomobil'nykh kuzovov. Izd.2., perer. Moskva, Mashgiz, 1962. 318 p. (MIRA 15:4)
(Motor vehicles—Bodies)

ROMANOV, Nikolay Trofimovich, kand. tekhn. nauk; KIRILLOV, A.N., kand. tekhn. nauk, retsenzent; LEBEDEVA, I.D., red.izd-va; AKOPOVA, V.M., tekhn. red.

[Practical and laboratory work on the technology of lignin plastics and boards] Prakticheskie i laboratornye raboty po tekhnologii drevesnykh plastikov i plit. Moskva, Goslesbumizdat, 1963. 304 p. (MIRA 17:2)

KIRILLOV, A.N., kand.tekhn.nauk

Mathematical method for determining the output of veneer sheets from birch raw material. Der. prom. 12 no.10:9-10 O '63. (MIRA 16:10)

KIRILLOV, A.P., kand.tekhn.nauk

Increasing the reliability of prestressed pipe. Gidr. stroi. 33 no.5:31-33 My '63. (MIRA 16:5)
(Pipe, Concrete)

KIRILLOV, A. S.

Characteristic Rate of Erythrocyte Sedimentation Reaction in Sheep and Lambs

Tr. Chkalovskogo S.-Kh. In-ta, No 6, 1953, pp 253-256

Author studied the Erythrocyte Sedimentation Reaction in healthy sheep and lambs and in those suffering from diseases such as infections mastitis, moniezia, and severe exhaustion. In the healthy animals the reactions was slow, 10 to 12 mm in 24 hours. In the sick animals the rate was 64 mm in 24 hours. (RZhBiol, No 1, 1955)

SO: SUM. No. 639, 2 Sep 55

KIRILLOV, A.S.

Method for the application of an intestinal anastomosis in sheep. Fiziol.zhur. 47 no.3:404-405 Mr '61. (MIRA 14:5)

1. Kafedra zoogigiyeny s osnovami veterinarii Gosudarstvennogo sel'skokhozyaystvennogo instituta, Kurgan.
(INTESTINES--SURGERY)

KIRILLOV, A.S.; RYLOV, V.S.

Sources of magnesium in carbonatites. Zap.Vses.min.ob-va. 92 no.2:228-231 '63. (MIRA 16:5)

1. Leningradskiy gosudarstvennyy universitet i Leningradskiy fiziko-tekhnicheskiy institut AN SSSR.
(Magnesium) (Rocks, Carbonate)

KIRILLOV, A.S.; SHIVRIN, G.N.

Comparison of hydraulic separators and hydrocyclones as classifiers.
Tsvet.met. 29 no.4:77-79 Ap '56. (MLRA 9:8)

1. Kombinat "Baleysoloto".
(Balei--Ore dressing) (Hydrometallurgy)

KIRILLOV, A.S.

AUTHOR: Kirillov, A.S. and Shivrin, G.N. 136-2-4/22

TITLE: Rise of Hydrocyclones in Ore Grinding and Final Grinding Cycles. (Primeneniye gidrotsiklonov dlya klassifikatsii v tsiklakh izmelcheniya i doizmelcheniya rud)

PERIODICAL: Tsvetnyye Metally, 1957, no.2, pp. 14 - 21 (USSR)

ABSTRACT: The use of hydrocyclones in closed cycle with mills is discussed in this article. Information on wear in such installation in relation to the particle size is given and suggested plant layouts are illustrated. Mill productivity as a function of the content of 0.074 mm material in the feed and this content in terms of solid matter content are shown graphically. Flow-sheets are given together with information on the technical characteristics of the corresponding hydrocyclones and tabulated results obtained with one scheme at the Baleyskaya experimental plant. The author concludes that the use of hydrocyclones opens up possibilities of increasing plant capacity without high capital investment. He thinks that hydrocyclones can not entirely replace mechanical classifiers in the grinding cycle of the raw ore, but could do so at later stages. There are 8 figures and 2 tables and 3 Slavic references.

1/1

AVAILABLE: Library of Congress

KIRILLOV, A.S.

AUTHOR: Kirillov, A.S. and Shivrin, G.N. 136-6-3/26

TITLE: Precipitation of Gold from Cyanide Solution with Zinc Dust. (Osazhdeniye zolota iz tsianistogo rastvora tsinkovoy pyl'yu)

PERIODICAL: Tsvetnyye Metally, 1957, No.6, pp. 18-21 (USSR)

ABSTRACT: At the Baley Experimental Works (Baleyskaya opytnaya fabrika) a process for precipitating gold from cyanide solutions with zinc dust has been under test for a long time. Standard equipment was made by the 'Trud Works with a rated productivity of 250 m^3/day was used. Two tables and a graph based mainly on data obtained in 1955-1956 are shown in the present article which discusses various features of the process: all data referring to gold are in arbitrary, unspecified units. No appreciable effect on gold precipitation was observed from the following factors: changes in cyanide and alkali concentrations in the ranges 0.023-0.037% NaCN and 0.005-0.01% CaO, respectively, in the absence of harmful impurities: increase in productivity of the installation to 170-200% of the rated value, provided a sufficient zinc-cake thickness exists in the precipitator. The cake thickness is a very important factor in the process and is secured by charging 1.5 kg of zinc dust per m^2 of filtering surface of the precipitator immediately after washing.

Card 1/2

KIRILLOV, A.S.

Bauxite potential of the western edge of the Siberian Platform in the Angara Valley. Sov. geol. 3 no.3:121-123 Mr '60. (MIRA 13:11)
(Angara Valley--Bauxite)

KIRILLOV, A.S.

Basic characteristics of the relationship between igneous and tectonic activity in the Siberian Platform. Geol. i geofiz. no.11:40-46 '61. (MIRA 15:2)

1. Krasnoyarskoye geologicheskoye upravleniye.
(Siberian Platform--Geology, Structural)

KIRILLOV, A.S.

Basic characteristics of the tectonics of the southern part of the Siberian Platform in the initial stage of its formation. Geol. i geofiz. no.3:55-63 '62. (MIRA 15:7)

1. Krasnoyarskoye territorial'noye geologicheskoye upravleniye.
(Siberian Platform—Geology, Structural)

KIRILLOV, A.S.

Prospecting for diamonds in the Krasnoyarsk Territory. Mat. po geol. i pol.iskop.Kras.kraia no.3:223-230 '62. (MIRA 17:2)

KIRILLOV, A.S.

Origin of the Siberian Platform. Sov.geol. 5 no.8:16-24 Ag '62.
(MIRA 15:9)

1. Krasnoyarskoye geologicheskoye upravleniye.
(Siberian Platform—Geology)

KIRILLOV, A.S.

Tectonic faults in the Tunguska syneclise. Sov. geol. 6 no.11:58-67 N '63. (MIRA 17:1)

1. Zapadnyy geofizicheskiy trest.

KIRILOV, A.A.

Salic carbonatites in the [illegible] rocks of the Fedor Massif and mineralization connected with [illegible]. Izv. AN SSSR. Ser. geol. 28:228-234 '63. (MIRA 18:3)

KIRILLOV, A.S.

Hydroxyl bastnaesite, a new variety of bastnaesite. Dokl. AN SSSR 159 no.5:1047-1050 D '64 (MIRA 18:1)

1. Leningradskiy gosudarstvennyy universitet im. A.A. Zhdanova. Predstavleno akademikom N.V. Belovym.

PEVZNER, M.I.; SERPIL'YEV, O.G.; POCHIVALOV, I.N.; BORTNIKOV, A.V.; [illegible], A.S.

Industrial test in pebble mill grinding of gold containing ores at the S Ordzhonikidze plant in the Baleyzoloto Combine. Tsvet. met. 38 no.6:6-11 Je '65. (MIRA 18:10)

AKULOV, L.S.; ACHIL'DIYEV, U.I.; VOLOSOV, G.D.; GORDON, L.I.; GRIN, G.V.; GROMOV, M.A.; KIRILLOV, A.Ya.; LIPSHITS, M.I.; MITROPOL'SKIY, A.V.; RAYSKIY, I.D.; SMIRNOV, V.B.; FAYVUSOVICH, A.Kh.; FEDOROVA, I.Yu.; TSYPIN, I.M.; CHEKHOVICH, D.I.; ISHKOVA, A.K., red.; SUDAK, D.M., tekhn.red.

[Handbook on equipment for commercial enterprises and public food service] Spravochnik po oborudovaniiu dlia predpriiatii torgovli i obshchestvennogo pitaniia. Moskva, Gos.izd-vo torg.lit-ry, 1959. 322 p. (MIRA 12:12)

1. Inzhenerno-tekhnicheskiye rabotniki Upravleniya torgovogo oborudovaniya i TSentral'nogo konstruktorskogo byuro torgovogo mashinostroyeniya (for all except Ishkova, Sudak).
(Business enterprises--Equipment and supplies)
(Restaurants, lunchrooms, etc.--Equipment and supplies)

KIRILLOV, A.Ya., inzh.; CHELNOKOV, Ye.L., inzh.

Soundproofing of large-panel apartment houses. Biul. tekh.inform.po stroi. 5 no.10:12-13 O '59. (MIRA 13:3)
(Architectural acoustics) (Leningrad--Apartment houses)

AKULOV, L.S.; ACHIL'DIYEV, U.I.; VOLOSOV, G.D.; GORDON, L.I.; GRIN, G.V.; GROMOV, M.A.; KIRILLOV, A.Ya.; LIFSHITS, N.I.; MITROPOL'SKIY, A.V.; RAYSKIY, I.D.; SMIRNOV, V.B.; FAYVUSOVICH, A.Kh.; FEDOROVA, I.Yu.; TSYPIN, I.M.; CHEKHOVICH, D.I.; ISHKOVA, A.I., red.; KISELEVA, A.A., tekh.red.

[Handbook on equipment for commercial enterprises and public food service] Spravochnik po oborudovaniiu dlia predpriiatii torgovli i obshchestvennogo pitaniia. Izd.2., dop. Moskva, Gos. izd-vo torg. lit-ry, 1960. 333 p. (MIRA 14:10)
(Restaurants, lunchrooms, etc.--Equipment and supplies)

PAVLOV, Yevdokiya Kuz'minichna. Prinimal uchastiye NOSOV, G.Ya., kand. tekhn. nauk, prepodavatel'; KIRILLOV, A.Ya., inzh., red.; CHERVYAKOVA, L.S., red.; EL'KINA, E.M., tekhn. red.

[Mechanical equipment for public eating establishments] Mekhanicheskoe oborudovanie predpriiatii obshchestvennogo pitaniia. Pod red. A.IA.Kirillova. Moskva, Gos. izd-vo torg. lit-ry, 1961. 238 p. (MIRA 15:1)

1. Moskovskiy tekhnikum obshchestvennogo pitaniya (for Nosov). (Restaurants, lunchrooms, etc.—Equipment and supplies)

25(2)

SOV/118-59-2-11/26

AUTHOR: Pronin, G.N. and Kirillov, B.G.

TITLE: A Weight-Controlling Conveyer (Yustirovochnyy konveyer)

PERIODICAL: Mekhanizatsiya i avtomatizatsiya proizvodstva, 1959, Nr 2, p 34 (USSR)

ABSTRACT: This is a short description of a weight-controlling conveyer designed and produced at the Vesovoy zavod "Krasnolit" (the "Krasnolit" Scale Manufacturing Plant). For checking weighing errors, 2 electric telphers with attached special monolithic control loads move along a monorail, which is installed above the conveyer. The weight is put on the platform. The suspended control load is automatically freed from the balance arm. If the cable hook of the electric telpher is lowered, the loads get an excess weight of 125 kg, intended for the stability test. Due to the introduction of the new conveyer, labor productivity has been increased 65 %. There are 2 diagrams.

Card 1/1

AUTHORS: Pronin, G.N., Kirillov, B.G.

TITLE: Conveyer for Checking VPG-500(M) Balances (Konveyer dlya yustirovki vesov VPG-500(M))

PERIODICAL: Izmeritel'naya tekhnika, 1958, Nr 6, p 42 (USSR)

ABSTRACT: At the plant "Krasnolit" a special metal conveyer has been developed in order to increase the output of mobile platform balances for a maximum load of 500 kg. The conveyer (Figure 1) is 16 m long and 1 m broad. It is driven by a 2.8 kw electro-motor. The speed of the belt is 0.4 m/min. The weights are transported by electric telphers which put them on the balances automatically. The device increases the output from 110 to 180 balances per shift and raises the productivity of the adjusters by 65 %.
There are 2 diagrams.

ASSOCIATION: "Krasnolit"

Card 1/1

KIRILLOV, B.K.

KLIMOV, K.M., professor, laureat Stalinskoy premii; SMIRNOV, Ye. professor; KIRILLOV, B.K., professor, FAYVISHENKO, E.L., professor, MUKHIN, M.V. professor; BAL', professor, NORENBERG-CHARKVIANI, A.Ye., doktor meditsinskikh nauk; SAKHAROV, M.I., doktor meditsnkikh nauk; MAKAROV, M.P., dotsent; BUTIKOVA, N.I., dotsent; SHELOMOVA, T.P., kandidat meditsinskikh nauk; RAKITINA, L.N., kandidat meditsinskikh nauk; KAMPEL'MAKHER, Ya.A., kandidat meditsinskikh nauk.

Forty years of Professor A.T.Lidskii's scientific, medical and pedagogical activities. Khirurgiia no.6:82-83 Je '55 (MLRA 8:10)
(LIDSKII, ARKADII TIMOFEEVICH)

L 22790-66 (A)

ACC NR: AM6008537 Monograph UR/

13

B+1

Kirillov, Boris Nikolayevich (Colonel); Postnikov, Viktor Fedorovich (Colonel)

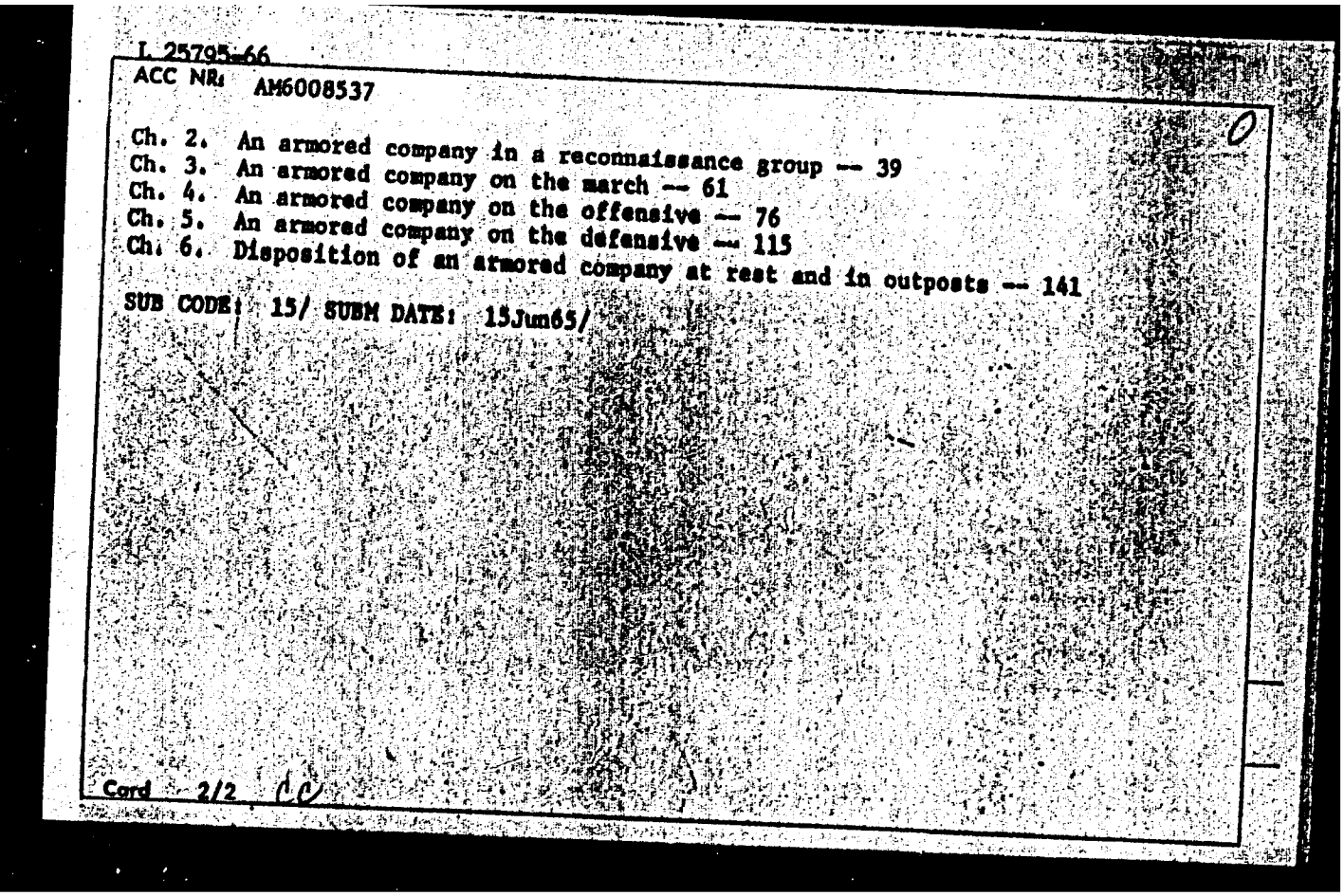
Tank company in combat (Tankovaya rota v boyu) Moscow, Voyenizdat M-va obor. SSSR, 1965. 159 p. illus. 6000 copies printed.

TOPIC TAGS: military operation, ground force tactic, military training, ground force training, tactics

PURPOSE AND COVERAGE: This book is intended for officers of armored and motorized units, for officers in the reserves, and for students in military schools. It can also be used by students of tactics of armored units. The role, the position, and combat objectives of an armored company, as a part of modern general military forces are considered here. Various operations of an armored company, before and during combat, are discussed and the company commander is advised on different types of combat actions. Actions of an armored commander during offensive and defensive attacks are shown in specific examples.

TABLE OF CONTENTS: [abridged]:

Card 1/2



L 25795-66
ACC NR: AM6008537

Ch. 2. An armored company in a reconnaissance group -- 39
Ch. 3. An armored company on the march -- 61
Ch. 4. An armored company on the offensive -- 76
Ch. 5. An armored company on the defensive -- 115
Ch. 6. Disposition of an armored company at rest and in outposts -- 141

SUB CODE: 15/ SUBM DATE: 15Jun65/

Card 2/2

KIRILLOV, B. P.

Kirillov, B. P. "Osteomyelitis originating from bullet wounds in post-war times," Trudy Gospit. khirurg. kliniki (Sverdl. gos. med. in-t), Vol, IV, 1948, p. 395-404

SO: U-3850, 15 June 53, (Letopis 'Zhurnal &nykh Statey, No. 5, 1949)

KIRRILLOV, B. P.

Kirrillov, B. P. "Surgery in sciato-femoral synostosis of loose arms and legs after ample resections of pelvic-femoral joints," Trudy Gospit, khirurg, kliniki (Sverdl. gos. med. un-t), Vol. IV, 1948, p. 420-27

SO: U-3850, 16 June 53, (Letopis 'Zhurnal 'nykh Statey, No. 5, 1949)

KIRILLOV, B.P.

Problem of formation of artificial indirect blood supply. Khirurgiia, Moskva no. 2:3-13 Feb 1953. (CLML 24:2)

1. Professor. 2. Of the Hospital Surgical Clinic (Director -- Honored Worker in Science Prof. A. T. Lidskiy, Corresponding Member AMS USSR) of Sverdlovsk Medical Institute.

KIRILLOV, B.P., professor; KON, I.I., kandidat meditsinskikh nauk

Surgery for gravitation abscesses in tuberculous spondylitis.
Khirurgiia no.5:53-59 My '56. (MLRA 9:9)

1. Iz kostnotuberkulezenogo sanatoriya imeni V.M.Molotova (Glavnyy vrach - zasluzhennyy vrach RSFSR L.K.Vasilevskiy)
(TUBERCULOSIS, SPINAL, surgery,
excis. of gravity abscesses (Rus))

KIRILLOV, B.P., professor

The problem of creating artificial collateral blood circulation.
Khirurgiia 32 no.1:63-71 J '56 (MLRA 9:6)

1. Zaveduyushchiy gospital'noy khirurgicheskoy klinikoy Ryazanskogo meditsinskogo instituta imeni I.P. Pavlova.
(BLOOD CIRCULATION,
collateral, technic)

KIRILLOV, B.P.; LYSENKO, V.A.; MAKEVNINA, T.N.; MYASNIKOVA, M.N.; PETROVSKAYA, A.V.; KIRILLOV, YU.B.

"Creation d'anastomoses d'organes."

report presented at the 18th Congress of the Intl Society of Surgery, Munich, 13-20 Sep '59.

KIRILLOV, B.P., prof.; PETROVSKAYA, A.V., kand.med.nauk; MYASNIKOVA, M.N.; MAKEVINA, T.N. [deceased]; YEPISHIN, N.M. (Ryazan')

Role of creating organic anastomoses in various types of vascular pathology of the internal organs. Khirurgiia 36 no.12:3-4 '60. (MIRA 14:1)

(LIVER—CIRRHOSIS)

KIRILLOV, B.P., mayor med. sluzhby

Analysis of the results of treating persistent recurrent furunculosis. Trudy KGMI no.10:275-281 '63. (MIRA 18:1)

1. Iz kafedry kozhnykh i venericheskikh bolezney (zav. kafedroy prof. G.Kh.Khachatur'yan [deceased]) Kalininskogo gosudarstvennogo meditsinskogo instituta.

KIRILLOV, B.P., prof. (Ryazan')

"Differential diagnosis of major surgical diseases". Khirurgiia 39 no.5:130-133 My '63. (MIRA 17:1)

KIRILLOV, B. ., prof.; FEDOSEYEV, V.A.

Treatment of coronary insufficiency by surgical methods. Vest. khir. no.7:122-126 Jl '64. (MIRA18:4)

1. Iz gospital'noy khirurgicheskoy kliniki (zav. - prof. B.P.Kirillov) Ryazanskogo meditsinskogo instituta imeni Pavlova (rektor - dotsent A.A. Nikulin).

KIRILLOV, B.P., prof. (Ryazan')

Concerning Assistant Professor N.N. Zemskov's "Some problems in the revascularization of the myocardium". Vest. khir. no.10:146-148 '64. (MIRA 19:1)

KIRILLOV, B. S.

KIRILLOV, B. S. --"Study of a Mechanism with a Resilient Member, Using as an Example a Shock-Absorber Spring Hammer with a Flat Shock Absorber." (Dissertations For Degrees In Science and Engineering Defended at USSR Higher Educational Institutions) (29) Min Higher Education USSR, Zhdanov Metallurgical Inst, Zhdanov, 1955

SO: Knizhnaya Letopis' No 29, 16 July 1955

* For the Degree of Candidate in Technical Sciences

GORENSHTEYN, M.M., kand.tekhn.nauk; KIRILLOV, B.S., kand.tekhn.nauk; TKACHENKO, V.K., inzh.; GOLOVENKO, A.I., inzh.; POGORZHEL'SKIY, V.I., inzh.; BARANETS, P.D., inzh.; YASHCHENKO, Z.A., inzh.; FIL'CHAKOVA, V.A., inzh.

Establishing the most satisfactory conditions for rolling on blooming mills with increased load on the main driving motor. Izv. vys. ucheb. zav.; chern. met. no.3:91-101 Mr '58. (MIRA 11:5)

1.Zhdanovskiy metallurgicheskiy institut i zavod "Azovstal'". (Rolling mills--Electric driving)

SOV/137-58-9-18598

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 9, p 61 (USSR)

AUTHORS: Khanin, S.Ye., Kirillov, B.S., Kiritsev, A.D.

TITLE: Determination of the Load-carrying Capacity of a Bridge Crane After Protracted Service in an Open-hearth Shop (Opredeleniye gruzopod"yemnosti mostovogo krana, nakhodivshegosya v dlitel'noy ekspluatatsii v usloviyakh martenovskogo tsekha)

PERIODICAL: Sb. nauchn. tr. Zhdanovsk. metallurg. in-t, 1957, Nr 4, pp 205-215

ABSTRACT: Using, by way of illustration, a 75/25-ton gantry crane which had been in operation in a smelting shop for a period of 40 years, the authors present a method for the determination of the true load-carrying capacity of cranes which had been in service for considerable periods of time and the design load-carrying capacity of which is no longer valid. It is noted that corrosion reduces the cross-sectional area of metal by approximately 10%. Samples of metal from the structural members of the gantry taken from neutral zones or from layers of minimum stress were investigated. The elements were subjected to mechanical (bending, notch sensitivity, hardness, and

Card 1/2

SOV/137-58-9-18598

Determination of the Load-carrying Capacity of a Bridge Crane (cont.)

fracture tests), chemical, and metallographic tests. Experimental data permit the conclusion that the steel of the crane structure is a rimmed low-carbon steel similar to St. 1 but of a poorer quality. Impurities in the form of slag inclusions considerably reduce its tensile strength and ductility. It is pointed out that the formula for determination of permissible stresses, $\sigma_{perm} = K \sigma_o$, where $K = \epsilon_1 \cdot \sigma_{b1} / \epsilon \cdot \sigma_b$, is not acceptable for the determination of permissible stresses in old metal. Therefore, such stresses must be determined on the basis of combined characteristics of the quality of metal obtained in various laboratory tests. An optical method of determining the flexure of a crane beam is described together with a method employing strain gages for the determination of stresses. It is noted that auxiliary girders have a salutary load-relieving effect upon the main structure (10-15% of the useful load on the gantry).

M.Kh.

1. Hoists--Loading 2. Hoists--Structural analysis 3. Hoists--Mathematical analysis

Card 2/2

SOV/137-58-11-22369

Translation from: Referativnyy zhurnal. Metallurgiya, 1958, Nr 11, p 75 (USSR)

AUTHORS: Kirillov, B.S., Gorenshteyn, M.M., Tkachenko, V.K., Goltvenko, A.I.

TITLE: An Investigation of Dynamic Processes in the Live Train of an 1170 Blooming Mill Under More Severe Conditions of Rolling (Issledovaniye dinamicheskikh protsessov v rabochey linii blyuminga 1170 pri uzhestochennom rezhime prokatki)

PERIODICAL: Izv. vyssh. uchebn. zavedeniy. Chernaya metallurgiya, 1958, Nr 1, pp 128-137

ABSTRACT: An investigation is made of dynamic processes in the live train of a blooming mill (B) by comparing regimes for rolling 6.9-t steel ingots in 13 and 11 passes. The results serve as reference material for dynamic stress analyses relating the more intensive B rolling operations. The analytical and experimental investigations include derivation of the magnitudes of the static, motive, and dynamic moments at different phases of the passage of the metal (Me) through the rolls. The static and motive moments in the period of Me contact display a linear change and may be deemed constant when a steady-state process is in progress. The dynamic moments are investigated

Card 1/2

An Investigation of Dynamic Processes in the Live Train (cont.)

by means of the equation for the moment of the elastic forces of the spindle induced by the inertia of the flywheel masses in the live train of the mill during the contact phase and the steady rolling process. The effect of the law governing the increase in and the value of the moment of resistance during contact upon change in the dynamics of the process is demonstrated. Dynamic phenomena are virtually equal upon rolling in 13 and in 11 passes. The fluctuations in the torque moments induced by the elasticity of the system do not exceed 3% of the static load.

V. I.

Card 2/2

25(2) SOV/148-59-2-19/24

AUTHORS: Kirillov, B.S., Kapustina, M.I., and Kuzema I.D., Candidates of Technical Sciences; Danilov, V.D., and Savchenko, A.M., Engineers

TITLE: Investigation of the Crankshaft in Steam-Driven Rolling Mills (Issledovaniye kolenchatogo vala v sisteme parovogo privoda prokatnogo stana)

PERIODICAL: Izvestiya vysshikh uchebnykh zavadeniy, Chernaya metallurgiya, 1959, Nr 2, pp 143-151 (USSR)

ABSTRACT: In order to complete existing data the authors present information on the fatigue strength of crankshafts in steam driven rolling mills. Computations of the fatigue strength were preceded by dynamic analyses, including the character of stress and drive dynamics as well as by power analyses of the machine. The information includes recommendations on the computation of fatigue strength for multi-cranked shafts with a low revolution rate and subjected to no impact load.
There are 2 oscillograms, 1 photo, 6 sets of graphs and 1 table.

Card 1/2

SOV/148-59-2-19/24

Investigation of the Crankshaft in Steam-Driven Rolling Mills

ASSOCIATION: Zhdanovskiy metallurgicheskiy institut (Zhdanov Metallurgical Institute), Kafedra mekhanicheskogo oborudovaniya metallurgicheskikh zavodov (Chair of Mechanical Equipment of Metallurgical Plants)

SUBMITTED: March 19, 1959

Card 2/2

KAPUSTINA, M.I., kand.tekhn.nauk; KUZEMA, I.D., kand.tekhn.nauk, KIRILLOV, B.S., kand.tekhn.nauk; DANILOV, V.D., inzh., SAVCHENKO, A.M., inzh.

Developing efficient conditions of ingot rolling on cogging mills. Zool.shur. 38 no.1:95-100 Ja '59. (MIRA 13:4)

1. Zhdanovskiy metallurgicheskiy institut.
(Rolling (Metalwork)

S/137/60/000/009/005/029
A006/A001

Translation from: Referativnyy zhurnal, Metallurgiya, 1960, No. 9, p. 109.
20243

AUTHORS: Kirillov, B.S., Gorenshteyn, M.M., Goltvenko, A.I., Tkachenko, V.K.

TITLE: Calculation of the Multi-Purpose Spindle of a Rolling Mill

PERIODICAL: Sb. nauchn. tr. Zhdanovsk. metallurg. in-t, 1960, No. 5, pp. 372-381

TEXT: A comparison is made of the existing methods for calculating multi-purpose spindles of a rolling mill. The magnitudes of error when using one or the other method were revealed. As a result of the study it was established that the discrepancy between the theoretical calculations of a spindle fork and experimental data is explained by the inaccurate accounting for the twisting stress. A.I. Tselikov recommends to use the method of the strength of materials applied to the given case when calculating bore rolls. When calculating the blades of a roll, new coefficients are introduced which can be used as a basis of approximate calculations.

K.U.

Translator's note: This is the full translation of the original Russian abstract.
Card 1/1

KOZHEVNIKOV, Sergey Nikolayevich; KIRILLOV, B.S., kand. tekhn. nauk, dotsent, retsenzent; KROLEVETS, M.S., kand. tekhn. nauk, dotsent, red.; MAYEVSKIY, V.V., inzh., red.; GORNOSTAYPOL'SKAYA, M.S., tekhn. red.

[Equipment and mechanisms of hydraulic, pneumatic, and electric automatic control systems for metalworking machinery] Apparatura i mekhanizmy gidropnevmo- i elektroavtomatiki metallurgicheskikh mashin. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1961. 550 p. (MIRA 14:8)

(Metalworking machinery) (Automatic control)

KIRILLOV, B. S.

Investigating rolling mills with the purpose of increasing their output. Izv. vys.ucheb.zav.; chern.met.7 no. 5:97-103 '64.
(MIRA 17:5)

1. Zhdanovskiy metallurgicheskiy institut.

DYSHLOVOY, D., inzh.; LUTSKYAYA, A.A., inzh.; KIRILLOV, D.A., inzh.

Storage of sunflower of oil-rich varieties. Masl.-zhir.prom. 26 no.12:33-34 D '60. (MIRA 13:12)

1. Pavlogradskiy maslozavod.
(Dnepropetrovsk Province--Sunflower--Storage)

KIRILLOV, D.F.

Experience in building prefabricated sectional dwellings. Les.prom. 14 no.1:22 Ja '54. (MLRA 7:1)

1. Glavnyy inshener Okorodnuskogo lesopromyshlennogo khozyaystva.
(Buildings, Prefabricated)

KIRILLOV, D. F.

Lumber - Standards

Impossible to do without cranes. Les. prom. 12 no. 9, 1952.

9. Monthly List of Russian Accessions, Library of Congress, December 1952, Uncl.

KIRILLOV, D.I

ZHITOMIRSKIY, Emanuil Grigor'yevich; KIRILLOV, D.I., red.; MYAGKOV, V.A., red.izd-va; IVANCHENKO, N.A., tekhn.red.

[Finance and credit in enterprises of the lumber industry] Finansirovanie i kreditovanie predpriiatii lesnoi promyshlennosti. Moskva, Goslesbumizdat, 1957. 67 p. (MIRA 11:4)
(Lumber trade)

KIRILIOV, D. R.

Cranes, Derricks, Etc.

Impossible to do without cranes. Les. prom. 12, No. 9, 1952.

9. Monthly List of Russian Accessions, Library of Congress, December 1952 Uncl.